

TIMES-VIRGINIAN PAGE OF FARM NEWS

AGRICULTURE IN INDUSTRY

By Florence C. Wood

(This is one of a series of articles showing how farm products are finding new markets in industry.)

Soy Beans

The saga of the humble bean tells how a little-known farm product has skyrocketed to fame in 20 years, has become the dependable cash crop of thousands of farmers. The 1940 crop of 80,000,000 bushels will sell around a dollar a bushel, bringing a tidy sum to agriculture and tapping vast new markets for the farmer.

The crumpling of soybean oil has become a great new industry with nearly 100 mills operating in the important Midwest growing centers. Each year more beans are crushed and the great bulk of the 82,000,000 pounds of oil goes into the making of oleomargarine.

Other products in which the oil is used are glycerin, linoleum, celluloid, rubber substitute, soap stock, printing ink, core binder, candles and lecithin which is used in medicines and leather converted into glue. Soybean is being converted into fertilizer and stock and poultry feed. Soybean goes into paper, stinging and waterproofing of textiles. Meanwhile new food uses are multiplying as cereals, wafers, salad oil and candy are marketed.

Soybean plastics go into automobile parts amounting to 10-15 pounds of beans per car. Soybean oil is the base of lustrous enamel for cars as well as a new kind of water paint. Soybean casein is spun and woven into a firm upholstery fabric which will soon appear in automobiles. At the Ford River Rouge plant, soybean plastic automobile bodies are being made experimentally, which, if adopted for all Ford cars, would require 700,000 bushels of beans in this field alone.

Principal producing states are Illinois, Indiana, Iowa and Ohio. The bean has a tariff lobby in Washington, a listing on the Chicago grain board and the New York Producers Exchange.

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ALKA-SELTZER is usually effective in the relief of headache because its analgesic (pain-relieving) content is made more positive by alkaline buffers. Alka-Seltzer being a combination of pain-relieving and alkalizing ingredients has gained wide usage for relief of headache, cold, flu, indigestion, cold symptoms, "meningitis after" misery and muscular pains. And be sure to try Alka-Seltzer for that tired feeling following hard work or strenuous exercise.

Be Wise - Try **Alka-Seltzer** - your drugstore.

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Feel Free To Talk It Over With Us

Farmer's National Bank
 Appomattox, Virginia

WHEAT STORAGE BINS IMPORTANT

Poor Flooring, Foundation May Spoil Grain.

By E. W. LEBMANN

(Head of Department of Agricultural Engineering, University of Illinois.)

With an almost bumper crop of wheat in prospect, many farmers are planning for extra wheat storage on their farms as a result of a shortage of warehouse storage space. The first specification for a good bin is foundation footings large enough to prevent settling—on most soils one square foot of surface bearing on the ground for every 60 bushels of wheat. Footings need to be wider on soils that are not firm. Depth of foundation should be 12 inches to as much as 36 inches to protect against leaning and undermining by water, rodents and livestock. Fifteen to 18 inches above the ground is a good height for foundations. Small and medium-sized bins are often put on semi-permanent foundations such as of stone or concrete blocks.

Floors and joints should be designed according to tables of weight-carrying capacity (such as found in U. S. Department of Agriculture bulletins, Wheat Storage in the Ever-normal Granary) and the materials should be free of bad effects and termite damage. Tight floors are necessary to keep in gases during fumigation.

Concrete floors in bins for long-time storage need to be at least eight inches above the ground with hollow tile or coarse gravel underneath. It is a good plan to cover concrete floors with moisture-proof sheet paper or loose boards or to paint them with two coats of asphaltum paint.

Bin walls can be made of various materials such as boards, plywood, metal or masonry, but must be strong enough to resist bursting pressure. Sometimes added strength is provided by wire or rod cross-bracing. Walls must be tight to keep out moisture and to make fumigation feasible.

Simple Repairs Increase Farm Tractor Efficiency
 How to keep tractor power up and fuel costs down gives many a farmer a headache.

To try to help farmers relieve some of these "headaches," H. P. Bateman and G. M. Petersen, agricultural engineers of the University of Illinois college of agriculture, recently completed some tests on farmers' tractors.

They found that simply resetting the carburetor needs valve on some of the tractors gave a fuel saving of as much as 10 gallons for each 10-hour day. Improper adjustment of the carburetor was the most common cause found for high fuel consumption.

Adjusting the governor gave as much as a 20 per cent increase in the maximum power of some tractors operating under governor control, and more than doubled the power available at rated motor speed under governor control.

Grinding the valves resulted in a third power, yet the fuel consumption was decreased nearly 10 per cent at the same power output in the case of a tractor with the valves in poor repair when brought to the laboratory.

Appomattox needs boosters.

FARM TOPICS

UNCLEAN MILK SOURS QUICKLY

Bacteria Growth Causes an Unpleasant Taste.

By E. W. NEASHAM

(Extension Dairyman, Louisiana State University.)

Sour milk is probably the greatest cause of loss to the milk supply, and yet it is one of the most simple troubles to control. Clean cows—clean sterilized utensils—small and medium-sized bins are the three most important factors in improving the quality of milk. There is normally present in milk from a very few to many lactic acid bacteria, the organism which causes milk to sour. When milk is first produced it contains about 15 per cent lactic acid, not as the organisms grow and convert sugar into lactic acid, they soon produce enough to cause the milk to taste sour.

About 80 per cent of all bacteria that gain entrance to milk come from the utensils, the remainder coming from the dust of the air, dirt on the flanks of the animal, and from the milk.

In cleaning utensils, they should be rinsed immediately with cold water as soon as emptied, then washed in as warm water as hands can stand, containing a good dairy or washing powder (not soap or soap powder). Wash thoroughly with brush. The final cleaning step is sterilization, the one that destroys or kills the bacteria. Sterilize with steam or boiling water having a temperature of 212 degrees F.

Dirt and fecal matter which cling to the udder, flanks and body of the cow introduce organisms which produce undesirable odors and flavors. They also form gases from the sugar of the milk.

To prevent falling dirt and hair going into the milk the use of the small-top pail is highly essential. This perhaps is the most important utensil that can be used in improving the quality of the milk.

In order to control the growth of organisms, the milk should be kept at a temperature of 50 degrees or lower. At that temperature the growth practically ceases or is so slow as to be of little importance.

MONEY TO LEND

on real estate in Appomattox and adjoining counties; first or second mortgage; easy terms of repayment. Address: "LOAN", P. O. Box No. 308, Lynchburg, Va.

Hixburg News

Hixburg, July 29.—The June R-A meeting was held Friday afternoon in the home of Mrs. H. M. Marshall.

Mr. and Mrs. John Taylor, of Appomattox visited in the neighborhood Tuesday P. M.

Miss Ruth Swan spent several days last week with Mrs. Ernest Rogers, at Appomattox.

Rev. and Mrs. Donald Carson, of Ashland, are spending some time at his home here. Mr. Carson gave a talk, after Sunday School, at the Presbyterian church (Sunday).

Miss Carrie V. Hix went to Richmond Saturday on account of the illness of a friend.

Mrs. Wilson Hix, Pat and Ed McPhillips and Emmett Goin visited Wilcox Hix Sunday afternoon at the Virginia Baptist hospital. Mr. Hix is expected to return to his home today.

Mr. and Mrs. Billy Inge called to see Mr. and Mrs. J. N. Covington and Mr. and Mrs. N. S. Topping Sunday night.

Mrs. P. H. McPhillips and children, and Mr. and Mrs. E. McPhillips and family attended the Phillips family reunion at Keyville Saturday.

Misses Kitty Carson and Gertrude Sears are on a camping trip at Patomac View this week.

Mrs. H. C. Wheeler called in the home of J. R. Marshall Sunday night.

Lester Sears, of Blackstone, and J. K. Marshall, of Newport News, spent the week-end at their homes here.

J. E. Din, die, of Sweet Briar, was a business visitor here Wednesday.

J. R. Marshall is not so well at this writing.

Recent visitors in the home of E. H. Carson were Misses Florence and Mary.

When a Child Needs a Laxative!
 Your child should like this tasty liquid laxative and you should like the gentle way it usually makes up a youngster's lazy intestines when given by the simple directions.

SYRUP OF BLACK-DRAUGHT contains the same principal ingredient which has enabled its elder brother **BLACK-DRAUGHT** to give so many users such satisfying relief for so many years!

Perhaps that's why it usually gives a child such refreshing relief from the familiar symptoms indicate a laxative is needed.

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Miss Atlantic

The regular Sunbeam meeting was held Sunday afternoon in the home of Mrs. J. T. Hix.

The harnessed demonstration club's annual picnic will be held at Holiday Lake Saturday afternoon. Members are urged to attend.

Mr. and Mrs. N. S. Topping were at Appomattox Thursday afternoon.

Combined Straw
 Straw left on the field by the combine and plowed under late in the summer for a fall-seeded crop may have detrimental effects, says W. A. Albrecht of the University of Missouri college of agriculture. Straw going back into the soil directly will frequently be injurious to the next crop instead of beneficial. The cases of dangerous effects from straw turned under will increase as the number of combines employed on farms becomes greater.

Agricultural Notes
 The dairy cow can supply at least one-fifth of the farm family's food supply.

One of the main objectives in growing winter cover crops is to increase soil fertility.

Blackstrap molasses is palatable and relished by livestock. It has a mildly laxative effect.

Important Notice to Farmers
 Last year on July 28 and August 28, the growers of Appomattox County suffered damage to their crops by hail storms.

Those who carried Hail Insurance with us paid in full according to the percentage of damage to the amount of insurance carried.

Everyone was thoroughly satisfied with this adjustment.

ONE COMPLAINT.
 For over twenty years we have furnished satisfactory insurance service to tobacco growers.

Won't you let us protect you, also?
 The cost is very reasonable and covers the whole season.

J. A. BURKE & CO.
 GENERAL INSURANCE AGENTS
 Appomattox, Va. Telephone 4902

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Open Season

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